ISCN-GULF Conference 2009
Welcome @ EPFL
GULF – Global University Leaders Forum

-> Community initiated by the World Economic Forum in 2006
-> University Heads from 23 Universities from 9 different countries
-> Current topics:
  - Environmental Sustainability
  - Capacity building in universities in developing countries
  - Digital dissemination of university content
  - Middle East: Partnership and challenges
  - Faith and Globalization
ISCN – International Sustainable Campus Network

-> Aim: enhancing universities commitments to construct, redesign, and organize their campuses in a sustainable way and to include the experiences in their education

-> Under the auspices of Novatlantis (promoting sustainability in the Swiss Institutes of Technology)

-> Approx. 40 participating universities

-> 3rd conference (2007 & 2008 Zurich, 2009 Lausanne)
ISCN-GULF Conference 2009

Sustainable Academic and Corporate Campuses: Time to Implement

- Organized by Energy Center, EPFL
- With support of the Foundation “Les Bois Chamblard”
- Challenges:
  - bring together ISCN and GULF communities (“doers” and leaders)
  - bring together university and corporate campuses
  - achieve convergence of purpose regarding campus sustainability issues
EPFL in numbers

6’746 students (CMS excluded)
248 faculty *(FTE)
2139 staff **(FTE)

Budget Confederation 554 Million CHF
Third Party 194 Million CHF
Our missions

Educate and train future scientists, engineers and architects
Conduct cutting-edge research
Innovate and transfer knowledge to create jobs and companies
An orthogonal organization

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EPFL has been growing rapidly!

Number of students over time.
Stimulate transdisciplinarity

Center for Neuroprosthetics

Transportation Center

Alinghi

Energy Center

Space Center

Hydroptère

Montreux Jazz Festival archives

Solar Impulse
One of the most international campuses in the world *(The Times Higher Education Supplement, 2004)*

>110 Nationalities
Infrastructure: Main projects

Conference Centre
Rolex Learning Centre
Innovation Square
Students Housing
Hotel
Sports Centre
Message 2009

Create a True Campus
Sustainability @ EPFL

- Sustainability integrated in all curricula
- Numerous research activities in the fields of energy, mobility, environmental sciences, material sciences, etc.
- Development of green technologies
- A Charter for Sustainability
- A sustainable campus
Education and research

-> Numerous educational offers in energy and sustainability
-> Center for Research in Plasma Physics (CRPP)
-> EPFL Energy Center
-> Roundtable on biofuels
-> School projects
A sustainable campus

The right decisions in the 70’s and 80’s

-> Heating the campus with a thermo pump using the water of Lake Geneva (70% of the heating)

-> A sustainable architecture

-> National award for natural campus environment and landscaping
A sustainable campus

Commitments towards soft mobility

- Mobility Car Sharing
- 30 km/h on all campus roads
- Hundreds of secured parking places for bicycles
- Helpdesk for bicycles
The largest solar plant in Switzerland

-> A partnership with “Romande Energie”
-> 20’000 m², 20 Mio CHF, 2 Mio kWh/year
-> Construction 2009 – 2011
-> Integration of a research infrastructure around solar energy
EPFL: aiming at sustainability

-> **Renewable energy** use on campus (thermo pump since 1970’s, Switzerland’s largest photovoltaic centre in 2009-2011)

-> **Education** of sustainability integrated in curricula

-> Numerous **research activities** in the fields of energy, mobility, environmental sciences, material sciences, etc.

-> Development of **green technologies**

-> **Flagship projects** (Solar Impulse, Hydroptère)
Rolex Learning Center

Today ...

... and tomorrow

A place to study, work, interact, live, ...

by SANAA, Tokyo
Overall picture

Number of students

- Bachelor*: 51%
- Master: 49%
- PhD

* CMS excluded
Campus EPFL: des choix responsables

- 70 % de la production de chaleur est assurée par deux thermopompes alimentées en eau du lac
- 150’000 tonnes de CO2 économisées en 20 ans